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MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1272 of 2008 and Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

Organic Tea Tree Oil

Version 02 Date of creation: 13.04.2018
Supersedes the version from: 13.04.2018 Date of new version: 12.06.2024

1. Identification of the substance/mixture and the company/undertaking

1.1. Product Identifiers

Product name	:	Organic Tea Tree Oil
Substance name (INCI)	:	MELALEUCA ALTERNIFOLIA LEAF OIL
Botanical name	:	Melaleuca alternifolia
CAS No	:	85085-48-9 / 8022-72-8 / 68647-73-4
EO No	:	285-377-1 / - / -
Biological origin	:	It is obtained by steam distillation from the leaves of Tea tree Melaleuca alternifolia, Myrtaceae.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance/mixture	:	For application in perfumery and cosmetics, independently or as a recipe component, a part of composition.
Recommended restrictions on use	:	Avoid eye contact!
Reason not to recommend use:		Causes serious eye irritation!

1.3. Details of the supplier of the safety data sheet

Manufacturer **:** ALTEYA ORGANICS LLC
Mailing address/Postal code **: 6167,** village of Yagoda, 1, Rozovarna St.
Country identifier/
Postal code/city or town **:** Bulgaria
Telephone/Mobile/Fax **:** +359 700 15 502

E-mail of the competent person responsible for the Safety Data Sheet **:** salesbg@alteya.com
National contact person **:** Kaloyan Stoev

1.4. Emergency telephone number

Clinic of Toxicology at MPHATEM N.I. Pirogov
Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)
e-mail: poison_centre@mail.orbitel.bg
http//www.pirogov.net

2. Hazards Identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification according to GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
2.6	Flammable	Flammable liquids	Flammable Liquids. 3	H226
3.1	Oral	Acute toxicity	(Acute Tox. 4)	H302
3.10	Inh.	Inhalation hazard	(Asp Tox 1)	H304
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 2A	H319
3.11	Inh.	Acute toxicity (inh.)	STOT SE 3	H335
4.1	Chronic	Hazardous for aquatic life	Aquatic Chronic 2	H411

2.1.2. Additional information:

For full text of hazard statements and EC specific hazard statements: see SECTION 16.

2.2. Label Elements

Designation according Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms

GHS02 GHS07 GHS08 GHS09

Signal word : Hazardous

Hazard statements : H226 Flammable liquids and vapours
H302 Harmful if swallowed
H335 May cause respiratory tract irritation.
H304 May be fatal if swallowed and enters the respiratory tract.
H315 Causes skin irritation.
H317 May cause allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic for aquatic life with long-lasting effect.
EUH 208 Contains: beta-Myrcene, para-Cymene, alpha-Pinene, beta-Pinene, Limonene, Terpineol, Terpinene-4-ol, 1,8 cineol, alpha-Thujene, alpha-Phellandrene. May cause allergic reaction.

Safety recommendations

Safety recommendations

- General	:	P101	If medical advice is needed, have product packaging or label at hand.
		P102	Keep out of reach of children
- Prevention	:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P262	Avoid contact with eyes, skin or clothing.
		P270	Do no eat, drink or smoke when using this product.
		P273	Avoid release to the environment.
		P280	Use protective gloves/protective clothing /protective goggles/ protective facial mask.
- As a reaction	:	P305+ P351+ P338	If eye contact: Rinse thoroughly with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.
		P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/…
		P331	Do NOT induce vomiting.
		P302 + P352	IF SKIN CONTACT: Wash with plenty of water/...
		P260	Do not inhale vapours/aerosols.
		P333 + P313	In case skin irritation or rash appears: Seek medical advice/help.
- In storage	:	P403+P235	Store in a well-ventilated place. Keep cool.
- In discharge	:	P501	Dispose of contents / container in an approved place and in compliance with the local and national regulations.

2.3. Other hazards

The substance is combustible and can be ignited by potential sources of initiation.

Results of PBT and vPvB assessment

According to the assessment results, the substance is not PBT or vPvB.

3. Composition/information on ingredients

3.1. Substances/ Mixture

INGRIDIENT	*IDENTIFIERS*	*%*	*CLASSIFICATION*
MELALEUCA ALTERNIFOLIA LEAF OIL	*EINECS NO: 285-377-1 / - / -* *CAS NO: 85085-48-9 / 8022-72-8 / 68647-73-4*	*100,0*	 *DANGER* *Flam. Liq. 3 – H226* *Acute Tox Oral 4.; H302* *STOT SE 3, H335*

			Asp. Tox. 1, H304 *Skin Irrit. Cat.2, H315* *Skin Sens. 1B H317* *Eye .irrit, Cat. 2A; H319* *Aquatic Chronic 2 H411*
TERPINENE-4-OL	*EINECS NO: 209-235-5* *CAS NO: 562-74-3*	*40,0 – 50,0*	*Acute Tox Oral 4.; H302* *Skin Irrit. Cat.2, H315* *Eye .irrit, Cat. 2A; H319* *STOT SE 3, H335*
γ-Terpinene (GAMMA-TERPINENE)	*EINECS NO: 202-794-6* *CAS NO: 99-85-4*	*17,0 – 25,0*	*Flam. Liq. 3; H226* *Repr. 2; H361* *Aquatic Chronic 2, H411*
ALPHA-TERPINENE	*EINECS NO: 202-795-1* *CAS NO: 99-86-5*	*5,0 – 13,0*	*Flam. Liq. 3 - H226* *Acute Tox. 4 - H302* *Asp. Tox. 1, H304* *Skin Sens. 1 - H317* *Eye Irrit. 2 - H319* *Aquatic Chronic 2 - H411*
TERPINOLENE	*EINECS NO 209-578-0* *CAS NO: 586-62-9*	*1,5 – 8,0*	*Skin Sens. 1B / H317* *Asp. Tox. 1 / H304* *Aquatic Acute 1; H400; M = 1* *Aquatic Chronic 1; H410; M = 1*
P-CYMENE	*EINECS NO: 202-796-7* *CAS NO: 99-87-6*	*0,5 – 8,0*	*Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Eye Irrit. 2 - H319* *Asp. Tox. 1 - H304*
TERPINEOL	*EINECS NO: 232-268-1/202-680-6/205-342-6/209-584-3* *CAS NO: 8000-41-7/98-55-5/138-87-4/586-81-2*	*1,3 – 8,0*	*Skin Irrit. 2, H315* *Eye .irrit, Cat. 2A; H319*
α-PINENE	*EINECS NO: 201-291-9* *CAS NO: 80-56-8*	*1,0 – 6,0*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1B / H317* *Aquatic Acute 1; H400; M = 1* *Aquatic Chronic 1; H410; M = 1*
1,8-CINEOLE	*EINECS NO: 207-431-5* *CAS NO: 470-82-6*	*1,0 – 5,0*	*Flam. Liq. 3 - H226* *Skin Sens. 1B / H317*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*0,5 – 4,0*	*Flam. Liq. 3 – H226* *Asp. Tox. 1 - H304* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Aquatic Acute 1; H400; M = 1*

SABINENE	*EINECS NO: 222-212-4* *CAS NO: 3387-41-5*	*0,005 – 3,5*	*Flam. Liq. 3, H226* *Acute Tox. 4, H302*
ALPHA THUYENE	*EINECS NO: 202-686-7* *CAS NO: 2867-05-2*	*0,1 – 1,7*	*Flam. Liq. 3 - H226* *Skin Sens. 1, H317*
BETA - MYRCENE	*EINECS NO: 204-622-5* *CAS NO: 123-35-3*	*0,7 – 1,6*	*Flam. Liq. 3 - H226* *Asp. Tox. 1, H304* *Skin Irrit. 2 – H315* *Eye Irrit. 2 - H319* *Aquatic Acute 1; H400;* *M = 1* *Aquatic Chronic 1 / H410*
AROMADENDRENE	*EINECS NO: -* *CAS NO: -*	*1,0 – 1,5*	*Eye Irrit. 2 - H319*
BETA-PHELLANDRENE	*EINECS NO: -* *CAS NO: -*	*0,1 – 1,0*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304*
ALPHA-PHELLANDRENE	*EINECS NO: 202-792-5* *CAS NO: 99-83-2*	*0,1 – 1,0*	*Flam. Liq. 3 – H226* *Asp. Tox. 1, H304*
BETA-PINENE	*EINECS NO: 204-872-5* *CAS NO: 127-91-3*	*0,1 – 0,8*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Acute 1; H400;* *M = 1* *Aquatic Chronic 1;* *H410; M = 1*

Substance name	**Identifier**	**Specific concentration limits**	**M-Factors**	**ATE**	**Exposure route**
DL-α-pinene	CAS № 80-56-8	-	-	1.000 mg/kg	oral
Oil of Tea Tree	CAS № 85085-48-9	-	-	1.900 mg/kg 11 mg/l/4h 4,78 mg/l/4h	oral inhalation (vapour) inhalation (powder/mist)

4. First Aid Measures

4.1. Description of first aid measures

General notes : Remove the contaminated clothing. In case of sickness seek medical advice (if possible show the label).

Following inhalation : Provide fresh air. In case of any doubt or symptoms seek medical attention.

Following skin contact	:	Flush skin with water/take a shower. After skin contact, wash immediately with plenty of water. In case of skin reactions, consult a doctor. In case of skin irritations seek medical attention.
Following eye contact	:	In case of contact with eyes, rinse immediately with open eyelids for 10 to 15 minutes under running water and seek an ophthalmologist.
Following ingestion	:	Rinse the mouth with water (but only if the victim is conscious). Call a doctor immediately. In case of vomiting, be aware of the risk of inhalation.

4.2. Most important symptoms and effects, both acute and delayed

Notes	:	Risk of inhalation Vomiting, Irritation, Allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	:	Coordinate fire-fighting measures. Water splashes, alcohol resistant foam, dry powder for extinguishing, BC-powder, carbon dioxide (CO_2)
Unsuitable extinguishing media	:	Water – strong jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	Combustible. In case of insufficient ventilation and/or use, it may form a flammable or explosive vapour-air mixture. Solvent vapours are heavier than air and may spread on floors. Areas that are not ventilated, e.g. stuffy areas below ground level such as trenches, tunnels and shafts, are particularly susceptible to the presence of flammable substances or mixtures. Vapours can form explosive mixtures with the air.
Hazardous products of combustion	:	Carbon monoxide (CO), carbon dioxide (CO_2). Burning may release poisonous gases containing carbon monoxide.

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	Do not inhale smoke in case of fire and/or explosion. Do not allow water from extinguishing to enter drains or water sources. Extinguish the fire with the usual precautions from a reasonable distance. Wear a self-contained breathing apparatus.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

Avoid product contact with skin, eyes and clothing. Do not inhale the vapour/aerosol. Avoid sources of ignition.

For firefighters: Firefighters to be equipped with appropriate personal protective equipment (see SECTION 8).
High temperature may increase pressure in container - cool container by spraying water. Avoid inhaling vapours released.

6.1.2. For the persons responsible for emergencies

Personal precautions	:	Maintain good occupational and personal hygiene. Avoid inhalation of product vapors and contact with skin, eyes and clothing.

6.2. Environmental precautions

Environmental precautions	:	Protect against contamination of drains, surface and ground water. Save the contaminated water for flushing and discard it. If the substance is got into water sources or drains, inform the responsible authority.

6.3. Methods and materials for containment and cleaning up

6.3.1.	For containment	:	Absorb mechanically with a binder (sand, diatomaceous earth, acid binder or universal).
6.3.2.	For cleanup	:	Place in appropriate disposal containers. Ventilate the affected area.

6.4. Reference to other sections

Hazardous combustion products: see SECTION 5. Personal protective equipment: see SECTION 8. Incompatible materials: see SECTION 10. Waste disposal: see SECTION 13.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Provide adequate ventilation. Handle in accordance with of the good occupational hygiene and safety rules. Avoid accidental contact with skin surfaces. Wear appropriate protective clothing. Avoid inhalation. Avoid contact with eyes. Always wash hands after handling. Remove and wash contaminated clothing before re-use.
Fire-fighting measures	:	Store away from ignition sources. Do not smoke.
Measures to avoid transformation into aerosols and powder	:	Provide good ventilation or exhaust gases in the workplace.
Hygiene measures	:	Wash your hands before breaks and at the end of the working day. Avoid eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store in full and tightly closed containers away from heat, light and other ignition sources at a temperature of 15-25˚C. Minimize contact with air. To store the oil for a shorter periods of time containers of galvanized sheet metal should be used and for longer period storage – glass containers or containers with varnish coating of the inner surface.
Incompatible materials	:	Do not store in close proximity to heat, sparks, open flame, strong acids. Keep container tightly closed when not in use.
Packing materials	:	Always store in packaging allowing preserving the integrity and quality of the product.
Storage class	:	No information available
Additional information on storage conditions	:	No information available.
Recommendations for fire and explosion protection	:	Keep away from ignition sources and open flames.

Recommendations for primary storage	:	Follow good manufacturing practices and production hygiene practices, such as ensuring adequate ventilation in the workplace. Maintain good personal hygiene and do not eat, drink or smoke while working. **It is recommended to observe the conditions of packing and storage according to БДС ISO 210:2023.**

7.3. Specific end use(s)

Recommendations	:	Before using read the label.
Solutions specific to the industry sector	:	No information available.
Specific use(s)	:	For application in perfumery and cosmetics, independently or as a recipe component, a part of composition.
Additional information:		Follow the regulation relative to the application: • The cosmetics product regulations if advertised as cosmetics (for instance perfume, highly diluted essential oils for use on the body as massage oils or bath supplements). • In all other cases they are subject to Chemicals Ordinance.

8. Exposure controls/Personal protection equipment

8.1. Control parameters

Other occupational exposure limits

Information on monitoring procedures

Relevant DNEL-/DMEL-/PNEC and other threshold levels

MELALEUCA ALTERNIFOLIA LEAF OIL

DNEL 0,658 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 0,658 mg/m³ human, inhalation industrial worker acute - systemic effects
DNEL 4,356 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
DNEL 4,356 mg/kg bw/day human, dermal industrial worker acute - systemic effects

α-Pinene

GB cycloalkanes (>C7) 80-56-8 WEL 800 EH40/2005

beta-Pinene
DNEL 5,69 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
DNEL 0,8 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects
DNEL 54 µg/cm² human, dermal worker (industry) chronic – local effects

***(R)-p-Mentha-1,8-diene** - Index: NA, CAS: 5989-27-5, EC No: 227-813-5*
TLV TWA - TLV STEL- VLE 8h- VLE short: None.

α-Terpinene
DNEL 2.939 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
DNEL 0.833 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects

γ-Terpinene
γ-Terpinene 99-85-4 DNEL 2,939 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
γ-Terpinene 99-85-4 DNEL 0,833 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects

1,8 cineol
eucalyptol 470-82-6 DNEL 7,05 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
eucalyptol 470-82-6 DNEL 2 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects

Relevant PNEC- and other threshold levels

MELALEUCA ALTERNIFOLIA LEAF OIL
PNEC 0,008 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0,001 mg/l aquatic organisms marine water short-term (instant)
PNEC 2.57 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 37.11 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 3.711 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 7.42 mg/kg terrestrial organisms soil short-term (instant)

Limonene
PNEC 14 µg/l aquatic organisms freshwater short-term (instant)
PNEC 1,4 µg/l aquatic organisms marine water short-term (instant)
PNEC 1,8 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 3,85 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,385 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,763 mg/kg terrestrial organisms soil short-term (instant)

alpha-Pinene
DL-α-pinene 80-56-8 PNEC 0,606 µg/l aquatic organisms freshwater short-term (instant)
DL-α- pinene 80-56-8 PNEC 0,061 µg/l aquatic organisms marine water short-term (instant)
DL-α- pinene 80-56-8 PNEC 0,2 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)

DL-α- pinene 80-56-8 PNEC 157 µg/kg aquatic organisms freshwater sediment short-term (instant)
DL-α- pinene 80-56-8 PNEC 15,7 µg/kg aquatic organisms marine sediment short-term (instant)
DL-α- pinene 80-56-8 PNEC 31,7 µg/kg terrestrial organisms soil short-term (instant)

beta-Pinene
PNEC 1,004 µg/l aquatic organisms freshwater short-term (single instance)
PNEC 0,1 µg/l aquatic organisms marine water short-term (single instance)
PNEC 3,26 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
PNEC 0,337 mg/kg aquatic organisms freshwater sediment short-term (single instance)
PNEC 0,034 mg/kg aquatic organisms marine sediment short-term (single instance)
PNEC 0,067 mg/kg terrestrial organisms soil short-term (single instance)

α-Terpineol
PNEC 68 µg/l aquatic organisms freshwater short-term (single instance)
PNEC 6,8 µg/l aquatic organisms marine water short-term (single instance)
PNEC 2,6 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
PNEC 1,85 mg/kg aquatic organisms freshwater sediment short-term (single instance)
PNEC 0,185 mg/kg aquatic organisms marine sediment short-term (single instance)
PNEC 0,329 mg/kg terrestrial organisms soil short-term (single instance)

γ-Terpinene
γ-Terpinene 99-85-4 PNEC 0,003 mg/l aquatic organisms freshwater short-term (single instance)
γ-Terpinene 99-85-4 PNEC 0 mg/l aquatic organisms marine water short-term (single instance)
γ-Terpinene 99-85-4 PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
γ-Terpinene 99-85-4 PNEC 0,49 mg/kg aquatic organisms freshwater sediment short-term (single instance)
γ-Terpinene 99-85-4 PNEC 0,049 mg/kg aquatic organisms marine sediment short-term (single instance)
γ-Terpinene 99-85-4 PNEC 0,423 mg/kg terrestrial organisms soil short-term (single instance)

1,8 cineol
eucalyptol 470-82-6 PNEC 57 µg/l aquatic organisms freshwater short-term (instant)
eucalyptol 470-82-6 PNEC 5,7 µg/l aquatic organisms marine water short-term (instant)
eucalyptol 470-82-6 PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
eucalyptol 470-82-6 PNEC 1,425 mg/kg aquatic organisms freshwater sediment short-term (instant)
eucalyptol 470-82-6 PNEC 0,142 mg/kg aquatic organisms marine sediment short-term (instant)
eucalyptol 470-82-6 PNEC 0,25 mg/kg terrestrial organisms soil short-term (instant)

8.2. Exposition controls

8.2.1. Appropriate engineering control

Measures related to the substance/mixture to prevent exposure during identified uses	:	The description of the appropriate exposition control measures refer to the specified in subsection 1.2 identified uses of the substance or the mixture. Usually general or local exhaust ventilation is required to observe the limit(s) of exposure.

Eyes/face protection

Use safety masks with side protection.

Skin protection

Hand protection		Wear suitable gloves. Chemical protection gloves that have been tested in accordance with EN 374 are suitable. For special purposes, it is recommended to check the chemical resistance of the protective gloves, mentioned above, together with the supplier of these gloves. Times are approximate values from measurements at 22°C and constant contact. Elevated temperatures due to heated substances, body heat, etc. and reducing the effective layer thickness by stretching can result in the corresponding breakthrough time being reduction. If in doubt, contact the manufacturer. At approximately 1.5 times greater / less layer thickness, the corresponding drilling time is doubled / halved. The data refer to the pure substance only. When transferred to mixtures of substances, they can only be considered as a guide. • *type of material NBR (Nitrile rubber)* • *material thickness 0.3 mm* • *glove material wear > 480 minutes (penetration: level 6)*
Other skin protection:		Allow recovery periods for skin regeneration. Prophylactic skin protection (protective creams/ointments) is recommended.

8.2.1.1. Respiratory tract protection :

Respiratory protection is required in case of: Formation of aerosol mist. Type: A (against organic gases and vapours with boiling point > 65°C, color code: Brown).

Environmental exposition controls

Basic guidelines	:	Protect against contamination of drains, surface water and ground water.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of aggregation	:	liquid
Appearance	:	easily movable liquid
Color	:	clear, colourless to pale yellow
Odor	:	characteristic of tea tree, herbal, strong, warm, spicy, myristic
Odor threshold	:	No data from our supplier on this matter
Melting point / Freezing point	:	-22°C (ECHA)
Boiling point or initial boiling point and duration of boiling	:	97 – 220°C at 1.007 hPa (ECHA)
Flammability	:	flammable liquid according to GHS criteria
Explosivity	:	No information available
Lower and upper limit of explosivity	:	No information available.
Flash temperature	:	54ºC
Self-ignition temperature	:	252°C at 1.022 hPa (ECHA)
Boiling point	:	No information available.

Decomposition temperature	:	Not applicable
pH	:	No information available
Solubility(ies)	:	Soluble in ethanol
Insoluble in	:	Water
Partition coefficient n-octanol/ water (logarithmic value)	:	3,4 – 5,5 (30°C) (ECHA)
Vapor pressure	:	21 Pa at 25°C
Relative density	:	No information available
Characteristics of particles	:	Not applicable
Kinematic viscosity	:	2.864 mm^2/s at 20°C
Dynamic viscosity	:	2.549 mPa s at 20°C

9.2. Other information

Refractive index at n^{20}/d	:	1,476 - 1.481
Relative density at d^{20}	:	0.890 - 0.905
Optical rotation at °	:	6.0° to -10.0°
Surface tension	:	51 mN/m (20°C) (ECHA)

No other information available.

9.2.1. Information on the classes of physical hazards

Note	:	No information available.

10. Stability and Reactivity

10.1. Reactivity

Note	:	It is a reactive substance. Risk of ignition.
When heated	:	Risk of ignition. Vapours may form explosive mixtures with air.

10.2. Chemical stability

Note : The material is resistant to temperature and pressure or in the usual environment and under the foreseeable conditions of storage and operation.

10.3. Possible hazardous reactions

Hazardous reactions : Reacts violently with: strong oxidizer.

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat, direct sunlight, open flame, sparks. Do not store near sparks, naked flames, strong acids. No smoking.

Thermal decomposition : No data available.

10.5. Incompatible materials

Materials to avoid : Avoid contact with strong acids and oxidizers.

10.6. Hazardous decomposition products

Hazardous decomposition products : May cause burning smoke and acrid vapours: carbon monoxide, carbon dioxide

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

MELALEUCA ALTERNIFOLIA LEAF OIL
oral LD50 1.900 mg/kg rat TOXNET
inhalation (dust/mist) LC50 4,78 mg/l/4h rat ECHA
dermal LD50 >2.000 mg/kg rabbit ECHA

Note : Harmful if swallowed. Harmful if inhaled.

D-LIMONENE (CAS:5989-27-5)
ORAL ROUTE: LD50= 4,400 - 5,10MG/KG
SPECIES : Rat

beta-Myrcene
LD50 Oral - Rat - male - > 3.380 mg/kg
Notes: (ECHA)
Inhalation: No information available
LD50 Dermal - Rabbit- > 5.000 mg/kg
(OECD Test Guideline 402)

para-Cymene
LD50 Oral - Rat – male and female - 4.750 mg/kg
Assessment of acute toxicity Inhalation - 4 h - 3 mg/l - vapour
(Assessment of acute toxicity)
Notes: (REGULATION (EC) № 1272/2008, Annex VI)
Assessment of acute toxicity Inhalation - 3 mg/l – vapour

(The assessment of acute toxicity according to Regulation (EU) No. 1272/2008)
LD50 Dermal - Rabbit - > 5.000 mg/kg, Notes: (ECHA)

Terpineol
oral LD50 4.300 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

γ-terpinene 99-85-4 oral LD50 >2.000 mg/kg rat
γ-terpinene 99-85-4 dermal LD50 >2.000 mg/kg rat

α-terpinene 99-86-5 oral LD50 1.680 mg/kg rat
α-terpinene 99-86-5 dermal LD50 >2.000 mg/kg rat

Terpinene -4-ol
Terpinene -4-ol 562-74-3 oral LD50 1.300 mg/kg rat
Terpinene -4-ol 562-74-3 dermal LD50 >2.500 – <5.00 0 mg/kg rabbit

1,8 cineol
eucalyptol 470-82-6 oral LD50 2.480 mg/kg rat

Corrosion/Skin irritation

D-LIMONENE (cas:5989-27-5)
oral route: ld50= > 5000mg/kg
species : rabbit

D-LIMONENE (cas:5989-27-5)
oral route: ld50= > 5,600 - 6000mg/kg
species : mouse

beta-Myrcene
Skin - in vitro eye irritation test
Result: Irritating to skin. (EPISKIN Human Skin Test Model)

Terpineol
Causes skin irritation.

α-Terpinene 99-86-5
dermal LD50 >2,000 mg/kg rat ECHA

Notes : Causes skin irritation.

Serious eye damage/irritation

beta-Myrcene
Eye – Rabbit
Result: Eye irritation.
(OECD Test Guideline 405)

Terpineol
Causes serious eye irritation.

Result : Causes serious eye irritation.

Respiratory or skin sensitization

a-pinene
May cause allergic skin reaction. May cause sensitization by skin contact.

beta-Pinene
May cause allergic skin reaction

Note : May cause allergic skin reaction.

Ingestion

Note : Harmful if swallowed.

Mutagenicity of germ cells

Note : No data available

Carcinogenicity

Note : CAS 5989-27-5: IARC Group 3: The agent cannot be classified as carcinogenic for human.

Summary of the assessment of CMR properties

para-Cymene
It is supposed to impair fertility.
Toxicity to the developing organism - Rat - male and female - Oral

STOT (specific target organ toxicity) — single exposure

Note	:	No data available

STOT (specific target organ toxicity) — repeated exposure

Note	:	No data available

Aspiration hazard

Note	:	It can be fatal if swallowed and enters the respiratory tract.

Information on possible routes of exposure

Note	:	Dermal

Symptoms related to physical, chemical and toxicological characteristics

If swallowed	:	diarrhea, vomiting, inhalation hazard
If eye contact	:	serious eye irritation
If skin contact	:	causes skin irritation; may cause allergic reactions, itching, local redness
If inhaled	:	harmful if inhaled

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Note	:	Toxicological characteristics are not comprehensively studied

Interactions

Note	:	Toxicological characteristics are not comprehensively studied

Lack of specific data

Note	:	Toxicological characteristics are not comprehensively studied

Mixtures

Note	:	Toxicological characteristics are not comprehensively studied

Medical consideration

Note	:	People with a rash are referred to a dermatologist to test for allergic eczema. There is evidence that taking tea tree oil orally has caused serious side effects including disorientation, inability to walk, instability, rash and coma. When applied to the skin: it should always be diluted with a carrier oil. May cause skin irritation and allergic skin rash (dermatitis). Caution should also be used when applying tea tree oil around the eyes.

Other information

Note	:	Dilute before use. Before use a patch test should be carried out for people with sensitive skin.

11.2. Properties disturbing the functions of the endocrine system

para-Cymene
Repeated dose toxicity - Rat - male - Oral - No adverse effect level has been studied - 50 mg/kg
Repeated dose toxicity - Rat - male – Inhalation Notes: (ECHA)

12. Ecological information

Note	:	No information available on the oil itself.

12.1. Toxicity of components

Product:

Acute (short-term) toxicity:

Fish

MELALEUCA ALTERNIFOLIA LEAF OIL
LL50 >10 mg/l fish ECHA 24 h

para-Cymene
static test LC50 - Cyprinodon variegatus (Sheepshead sea bream) - 48 mg/l - 96 h

(OPPTS 850.1075)

Terpineol
LC50 70 mg/l fish ECHA 96 h

DL-α-pinene 80-56-8 LC50 0,303 mg/l fish 96 h

ß-pinene 18172-67-3 LC50 0,68 mg/l rainbow trout (Oncorhynchus mykiss) 96 h

α-Terpinene 99-86-5 LC50 3,150 µg/l fish ECHA 96 h

terpinolene 586-62-9 LC50 0,805 mg/l fish 96 h

γ-terpinene 99-85-4 EC50 2,792 mg/l fish 96 h

eucalyptol 470-82-6 LC50 57 mg/l fish 96 h

Toxic for Daphnia and other aquatic invertebrates

MELALEUCA ALTERNIFOLIA LEAF OIL
EL50 16,6 mg/l aquatic invertebrates ECHA 24 h

beta-Myrcene
EC50 - Daphnia magna (Water flea) - 1,47 mg/l - 48 h (OECD Test Guideline 202)

para-Cymene
semi-static test EC50 - Daphnia magna (Water flea) - 3,7 mg/l - 48h (OECD Test Guideline 202)

Terpineol
EC50 73 mg/l aquatic invertebrates ECHA 48 h

DL-α-pinene 80-56-8 EC50 0,475 mg/l aquatic invertebrates 48 h

α-Terpinene 99-86-5 EC50 1.7 mg/l aquatic invertebrates ECHA 48 h

terpinolene 586-62-9 EC50 0,634 mg/l aquatic invertebrates 48 h

eucalyptol 470-82-6 EC50 >100 mg/l aquatic invertebrates 48 h

Algae/aquatic plants

MELALEUCA ALTERNIFOLIA LEAF OIL
ErC50 >80 mg/l algae ECHA 72 h
EC50 >80 mg/l algae ECHA 72 h
beta-Myrcene

ErC50 - Pseudokirchneriella subcapitata (green algae) - 0,32 mg/l - 72 h (OECD Test Guideline 201)

para-Cymene
static test EC50 - Scenedesmus capricornutum (freshwater algae) - 4,03 mg/l - 72 h (OECD Test Guideline 201)

Terpineol
ErC50 68 mg/l algae ECHA 72 h

ß-pinene 18172-67-3
ErC50 0,7 mg/l Pseudokirchneriella subcapitata ECHA 72 h

terpinolene 586-62-9 ErC50 0,692 mg/l algae 72 h

eucalyptol 470-82-6 ErC50 >74 mg/l algae 72 h

Bacteria

beta-Pinene
EC50 326 mg/l microorganisms ECHA 3 h
static test EC50 - Sewage sludge - 326 mg/l - 3 h (OECD Test Guideline 209)

para-Cymene – poisonous to bacteria
static test NOEC - Activated sludge - 100 mg/l - 28 d

Chronic (long-term) toxicity:

MELALEUCA ALTERNIFOLIA LEAF OIL
EC50 257 mg/l microorganisms ECHA 30 min

beta-Pinene
May cause long-term adverse effects in the aquatic environment

para-Cymene – poisonous to bacteria
static test NOEC - Activated sludge - 100 mg/l - 28 d

pinene 18172-67-3
May cause long-term adverse effects in the aquatic environment

Fish

D-(+)-limonene 5989-27-5 EC50 <0.67 mg/l fish 8 d

Shellfish

Limonene
EC50 188 µg/l aquatic invertebrates ECHA 21 d

Algae/water plants

Note : No data available

Other organisms

ß-pinene 18172-67-3
EC50 326 mg/l microorganisms ECHA 3 h

ß-pinene 18172-67-3
growth (EbCx) 10% 38 mg/l microorganisms ECHA 3 h

p-Cymene 99-87-6
NOEC 100 mg/l microorganisms ECHA 28 d

Terpinolene 586-62-9 EC50 69 mg/l microorganisms 3 h

γ-terpinene 99-85-4 EC50 >1.000 mg/l microorganisms 3 h

α-terpinene 99-86-5 EC50 >10 mg/l microorganisms 3 h

eucalyptol 470-82-6 EC50 >100 mg/l microorganisms 3 h

12.2. Persistence and degradability

Substance: 2,91 $_{mg}/^{mg}$

Abiotic degradation

Degradation of mixture components

DL-α-pinene 80-56-8
oxygen depletion 68 % - 28 d

Myrcene 123-35-3
oxygen depletion 76 % - 28 d

ß-pinene 18172-67-3
oxygen depletion 76 % - 28 d

D-(+)-limonene 5989-27-5 generation of carbon dioxide 58.8 % 14 d ECHA
D-(+)-limonene 5989-27-5 oxygen depletion 80 % 28 d ECHA

Alpha-Terpineol
aerobic - Exposure time 28 d
Result: 80 % - Easily biodegradable.
(OECD Test Guideline 310)

terpinolene 586-62-9 oxygen depletion 81 % 28 d ECHA

γ-terpinene 99-85-4 oxygen depletion 27 % 28 d ECHA

α-terpinene 99-86-5 oxygen depletion 30 % 14 d ECHA

eucalyptol 470-82-6 generation of carbon dioxide 82 % 28 d ECHA

Physical and photo-chemical elimination

Note	:	No data available

Biochemical degradation

Note	:	Generation of carbon dioxide 43,8 % 5 d Oxygen depletion 4 % 5 d

12.3. Bioaccumulation

Product: The substance qualifies as very bioaccumulative.

Bioaccumulation of mixture components:

DL-α-pinene Log KOW 4,83
DL-limonene Log KOW 4,57
Myrcene Log KOW 4,82 (pH value:~6,5, 30°C)
γ-terpinene 99-85-4 5,4 (25 °C)
α-terpinene 99-86-5 5,3 (35 °C)
α-terpineol 98-55-5 2,98
terpinolene 586-62-9 4,47
eucalyptol 470-82-6 3,4

Bioconcentration factor (BCF)

Notes	:	Does not accumulate in biological environment

12.4. Mobility in soil

Product: No data available

Known or predicted distribution in environmental components		
Note	:	No data available

Surface tension		
Note	:	No data available

Adsorption/desorption		
Note	:	No data available

12.5. Results of PBT and vPvB assessment

This product doesn't contain substances considered persistent, bioaccumulative or toxic PBT.

Product:

Results from PBT and vPvB assessment		
Notes	:	No information available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)		
Value	:	No information available

Chemical oxygen demand (COD)		
Value	:	No information available

Additional ecological information/Mobility in soil		
Notes	:	No information available

12.7. Additional information

Notes	:	Avoid release of products in streams, sewer systems or other water routes.

13. Disposal Considerations

13.1. Waste treatment methods

Product : Treat this material and its packaging as hazardous waste. Dispose of contents/container in accordance with the local/regional/national/international regulation.

Information on discharge in sewer systems

Do not discharge into drains. Avoid release to the environment, see special instructions/safety data sheet.

Container/packaging disposal considerations

It is a hazardous waste; only packaging that is approved (e.g. according to ADR) can be used. Treat contaminated packaging in the same way as the substance itself. Completely emptied packaging can be recycled.

13.2. Relevant provisions relating to waste

Placing codes/names on the waste should be carried out in accordance with the Regulation on the catalog of waste, according to the specifics of the given production or process.

Properties of waste that make it hazardous

HP 3 flammable
HP 4 irritant - skin and eye irritation
HP 5 specific target organ toxicity (STOT)/ inhalation hazard
HP 6 acute toxicity
HP 13 sensitizing
HP 14 toxic to the environment

13.3. Notes

Waste must be separated into categories that can be treated separately by local or national waste management authorities. Note any national or regional regulations that are relevant. Emptied and cleaned packaging can be recycled.

14. Transport Information
14.1. UN number or ID number

ADR/RID/ADN	UN 2319
IMDG Code	UN 2319

ICAO-TI	UN 2319

14.2. UN proper shipping name

ADR/RID/ADN	TERPENE HYDROCARBONS, N.O.S.
IMDG Code	TERPENE HYDROCARBONS, N.O.S.
ICAO-TI	Terpene hydrocarbons, n.o.s.
Technical name (hazardous ingredients)	Tea tree oil, terpinolene, beta-pinene, limonene

14.3. Transport hazard class(es)

ADR/RID/ADN	3
IMDG Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID/ADN	III
IMDG Code	III
ICAO-TI	III

14.5. Environmental hazards

Hazardous to the aquatic environment

14.6. Special precautions for user

Dangerous goods regulations (ADR) must be followed within the sites.

14.7. Transport in bulk according to Annex II to MARPOL and IBC Code"

The cargo is not intended for transport in bulk.

14.8. Information on all UN Model rules

Road, rail and inland water transport of dangerous goods (ADR/RID/ADN) - Additional information

Proper shipping name	TERPENE HYDROCARBONS, N.O.S.

Details in the transport document	UN2319, TERPENE HYDROCARBONS, N.O.S., 3, III, (D/E), environmental hazard
Classification code	F1
Hazard label(s)	3, "Fish and wood"

Environmental hazards	yes (Harmful to aquatic life)
Special provisions (SP)	274, 335, 375, 601
Excluded quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restrictions code (TRC)	D/E
Identif. Hazard No	30

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	TERPENE HYDROCARBONS, N.O.S.
The details as per the shipper's declaration	UN2319, TERPENE HYDROCARBONS, N.O.S., 3, III, 54°C c.c., MARINE POLLUTANT (Tea tree Oil)
Marine pollutant	yes (Harmful to aquatic life), (Tea tree oil, terpinolene, beta-pinene, limonene)
Hazard label(s).	3, "Fish and wood"

Special provisions (SP)	-
Excluded quantities(EQ)	E1
Limited quantities(LQ)	5 L
EmS	F-E, S-D

Storage category A

International Civil Aviation Organization (ICAO-IATA/DGR) -Additional information

Proper shipping name Terpene hydrocarbons, n.o.s.

The details as per the shipper's declaration UN2319, Terpene hydrocarbons, n.o.s., 3, III

Environmental hazards yes (Harmful to aquatic life)

Hazard label(s). 3

Excluded quantities (EQ) E1

Limited quantities (LQ) 10L

15. Regulatory information

15.1. Legislation specific for the substance or mixture / safety, health and environmental regulations

The relevant European Union (EU) regulations

Restrictions according to REACH Annex XVII

Substance name	Name in accordance with the inventory	CAS No	Restriction	No
Tea tree oil	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		**R3**	**3**
Tea tree oil	flammable / pyrophoric		**R40**	**40**
Tea tree oil	substances in tattoo inks and permanent makeup		**R75**	**75**
Myrcene	flammable / pyrophoric		**R40**	**40**
Myrcene	substances in tattoo inks and permanent makeup		**R75**	**75**
D-(+)-limonene	flammable / pyrophoric		**R40**	**40**
D-(+)-limonene	substances in tattoo inks and permanent makeup		**R75**	**75**
Terpinolene	substances in tattoo inks and permanent makeup		**R75**	**75**
DL-α-pinene	flammable / pyrophoric		**R40**	**40**
DL-α-pinene	substances in tattoo inks and permanent makeup		**R75**	**75**
α-terpineol	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		**R3**	**3**
α-terpineol	substances in tattoo inks and permanent makeup		**R75**	**75**

Legend

R3 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays;
- tricks and jokes;
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with risk phrase H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
a) lamp oils, labelled with risk phrase H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";
b) grill lighter fluids, labelled with risk phrase H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";
c) lamp oils and grill lighters, labelled with risk phrase H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010;
R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
R75 1. Shall not be placed on the market in mixtures intended for tattooing, and mixtures, containing any of these substances, shall not be used for tattooing purposes after 4 January 2022, if the substance or substances in question are present in the following circumstances:
a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogenic, category 1A, 1B or 2, or mutagenic to germ cells, category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent;
b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as toxic for reproduction, category 1A, 1B or 2, the substance is present in the mixture at a concentration equal to or greater than 0.001 weight percent;
c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as a skin sensitiser, category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0.001 weight percent;

d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as causing skin corrosion, category 1, 1A, 1B or 1C, or skin irritation, category 2, the substance is present in the mixture in a concentration equal to or greater than:
i) 0.1 weight percent if the substance is used solely as a pH regulator;
ii) 0.01 weight percent in all other cases;
e) in the case of a substance classified in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent;
f) in the case of a substance for which a condition is indicated for one or more of the following types in column g (Type of product, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent:
i) „Rinse-off products"
ii) „Not to be used in products for application on mucous membranes";
iii) „Not to be used in eye products ";
g) in the case of a substance for which a condition is specified in column h (Maximum concentration in the ready-to-use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration or otherwise not meeting the condition specified in this column:
h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry the use of a mixture "for tattooing" means the injection or introduction of the mixture into the skin, mucous membrane or eyeball of a person by a process or procedure (including procedures commonly referred to as "permanent makeup", "cosmetic tattooing", "microblading" and "micropigmentation") aimed at achieving a mark or drawing on his body.
3. If a substance not listed in Appendix 13 falls within the scope of more than one of points a) to g) of paragraph 1, the most stringent concentration limit established in those points shall apply to that substance. If a substance listed in Appendix 13 also falls within the scope of one or more of points a) to g) of paragraph 1, the concentration limit set out in point h) of paragraph 1 applies to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
a) Pigment Blue 15:3 (CI 74160, EO number 205-685-1, CAS number 147-14-8);
b) Pigment Green 7 (CI 74260, EO number 215-524-7, CAS number 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or reclassify a substance so that it falls under points a), b), c) or (d) of paragraph 1 of this entry or falls under a different point from that in which it previously fell, and the date of application of that new or revised classification is after the date specified in paragraph 1 or, as the case may be, in paragraph 4 of this entry, then, for the purposes of applying this entry to the specified substance, that amendment shall be treated as coming into force on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to add a substance to the list or to change its entry so that it falls under points e) , f) or g) of paragraph 1 of this entry, or fall in a different point from that in which it previously fell, and the amendment takes effect after the date specified in paragraph 1 or, as the case may be, paragraph 4 of this entry, then for the purposes of the application of this entry in relation to the specified substance, this amendment shall be treated as coming into force 18 months after the entry into force of the act which the said amendment is made by.
7. Suppliers that place on the market a mixture intended for tattooing shall ensure that, after 4 January 2022, the following information is indicated on the label of the mixture:
a) the text "Mixture intended for tattoos or permanent make-up";
b) a unique lot identification reference number;
c) the list of ingredients in accordance with the nomenclature established with the Glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common name of an ingredient, the IUPAC name. In the absence of a name or IUPAC name, the CAS number and the EC number. Ingredients are listed in descending order by weight or volume of ingredients at the time of formulation. "Ingredient" means any substance added during the formulation process and present in the mixture intended for tattooing. Impurities are not considered ingredients. If there is already a requirement for the name of a substance used as an ingredient within the meaning of this entry to be indicated on the label in accordance with Regulation (EC) No 1272/2008, this ingredient is not necessary to be indicated in accordance with this regulation;
d) the additional text "pH regulator" for substances covered by paragraph 1, letter d), subsection i);
e) the text "Contains nickel. May cause allergic reactions.", if the mixture contains nickel below the limit concentration, specified in Appendix 13;

f) the text "Contains chromium (VI). May cause allergic reactions.", if the mixture contains chromium (VI) below the concentration limit, specified in Appendix 13;
g) instructions for safe use to the extent that until now, according to Regulation (EC) No 1272/2008, they were not required to be indicated on the label. The information is clearly visible, easy to read and marked to be indelible. The information shall be written in the official language(s) of the Member State(s) in which the mixture is placed on the market, unless otherwise provided in the Member State(s) concerned. Where this is required due to the size of the package, the information referred to in the first paragraph, with the exception of letter a), shall instead be included in the instructions for use. Before using a mixture for the purpose of tattooing, the person using the mixture shall provide the person undergoing the procedure with the information marked on the packaging or included in the instructions for use under this paragraph.
8. Mixtures which labels do not contain the text "Mixture intended for tattooing or permanent make-up" are not used for the purpose of tattooing.
9. This entry does not apply to substances which are gases at a temperature of 20 °C and a pressure of 101,3 kPa or generate a vapor pressure of more than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS number 50-00 -0, EC number 200-001-8).
10. This entry does not apply to the placing on the market of a mixture intended for tattooing or to the use of a mixture for the purposes of tattooing when it is placed on the market exclusively as a medical device or an accessory to a medical device within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or accessory to a medical device in the same sense. When the placing on the market or use may not be exclusively as a medical device or accessory to a medical device, the requirements under Regulation (EU) 2017/745 and under this Regulation shall apply cumulatively.

Seveso Directive

2012/18/EC (Seveso III)				
№	**Hazardous substance/hazard categories**	**Threshold quantity (in tonnes) for the application of the requirements at low and high risk potential**		**Notes**
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	**200**	**500**	**57)**

Notation
57) Hazardous to the aquatic environment in the category Chronic hazard, category 2
Deco-Paint Directive

VOC content	100 %
VOC content	996 g/l

Directive on industrial emissions

VOC content	100 %
VOC content	996 g/l

Water Framework Directive (WFD)

List of pollutants (WFD)				
Substance name	**Name in accordance with the inventory**	**CAS No**	**Listed in**	**Notes**
Myrcene	Substances and preparations		A)	

	or constituents thereof that have proven carcinogenic or mutagenic properties or properties that may affect steroids, thyroid, reproduction or other endocrine functions in or through the aquatic environment			

Legend
A) Recommended list of major pollutants

Other regulations / Laws: This material safety data sheet is consistent with the Law on Protection from Harmful Effects of Chemical Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling

EU legislative acts: Accordingly EU regulations.

The following restrictions are applicable according to Annex XVII to Regulation (EC) No. 1907/2006 of REACH

3. Liquid substances or mixtures which are regarded as dangerous set out in Annex I to Regulation (EC) No 1272/2008	Melaleuca Alternifolia Leaf Oil, Terpinene-4-Ol, Γ-Terpinene, Alpha-Terpinene, Terpinolene, Terpineol, 1,8-Cineole, P-Cymene, A-Pinene, Aromadendrene, Limonene, Beta-Phellandrene, Beta-Myrcene, Alpha Thuyene, Beta-Pinene, Alpha-Phellandrene, Sabinene
3a. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8, type A and B, 2.9 , 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15	Melaleuca Alternifolia Leaf Oil, Γ-Terpinene, Alpha-Terpinene, 1,8-Cineole, P-Cymene, A-Pinene, Limonene, Beta-Phellandrene, Beta-Myrcene, Alpha Thuyene, Beta-Pinene, Alpha-Phellandrene, Sabinene
3.b. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development , 3.8 effects other than narcotic effects, 3.9 and 3.10	Melaleuca Alternifolia Leaf Oil, Terpinene-4-Ol, Γ-Terpinene, Alpha-Terpinene, Terpinolene, Terpineol, 1,8-Cineole, P-Cymene, A-Pinene, Aromadendrene, Limonene, Beta-Phellandrene, Beta-Myrcene, Alpha Thuyene, Beta-Pinene, Alpha-Phellandrene, Sabinene
3.c. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Melaleuca Alternifolia Leaf Oil, Γ-Terpinene, Alpha-Terpinene, Terpinolene, A-Pinene, Limonene,

Other legislative acts, permits or restrictions for use: No information available

14.9. Chemical Safety Assessment

No information available.
The supplier had not prepared a chemical safety assessment for this substance/mixture.

15. Other information

Shelf life 30 months from the date of manufacture.

Classification and procedure used to obtain the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]

Specifying the changes :

Change of allergens, classification, phrases for safety and additional information about the product based on gas-chromatographic analysis and latest changes.

Abbreviations and acronyms:

Abbr.	Description of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the international Carriage of Dangerous Goods by Road, Rail and Inland waterway (ADR/RID/ADN)
ATE	Assessment of acute toxicity
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging)
COD	Chemical Oxygen Demand
CMR	Carcinogenic, mutagenic and toxic for reproduction (substance)
DGR	Dangerous Goods Regulations (see IATA/DGR))
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule

ErC50	in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" ", developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe carriage of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-octanol/water
NLP	A substance that no longer has the properties of a polymer
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
SVHC	Substance of Very High Concern
UEL	Upper Explosion Limit (UEL)
vPvB	very Persistent and very Bioaccumulative
EC No in EU List	(EINECS, ELINCS и NLP-list) is the source for the seven-digit EC number, identifier of substances in the commercial network within the EU (European Union)
Index No	the index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
VOC	Volatile Organic Compounds

Main references and sources of data in the literature
- Regulation (EC) No 1907/2006 (REACH), as amended by 2020/878
- Regulation (EC) No 1272/2008 (CLP, EC GHS)

	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	**Text**
H226	Flammable liquid and vapour.

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H335	May cause respiratory tract irritation.
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms, long lasting effect.
H411	Toxic for aquatic life with long-lasting effect
EUH 208	Contains beta-Myrcene, 3-octanol, para-Cymene, Methyl Eugenol, alpha-Pinene, beta-Pinene, Limonene, Linalool, Menthol, Terpineol, Citronellol, Citral, Geraniol, Phenethyl Alcohol, Geranyl Acetate, Beta-Caryophyllene, 1,8 cineol, Isoeugenol. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P101	In case you need medical advice have with you the packing or the label of the product.
P102	Keep away from children
P210	Keep away from heat, hot surfaces, sparks, naked flames and other sources of ignition. No smoking.
P260	Do not inhale vapours/aerosols.
P262	Avoid contact with eyes, skin or clothing.
P270	Do not eat, drink or smoke when using the product.
P273	Avoid release to the environment.
P280	Use protective gloves/protective clothing/protective goggles/facial mask.
P305 + P351 + P338	IF EYES CONTACT: Rinse thoroughly with water for several minutes. Remove the contact lenses if there are such and if possible. Continue rinsing.
P301 + P310	IF SWALLOWED: Immediately call the TOXICOLOGY CENTER/doctor.
P331	DO NOT induce vomiting.
P302 + P352	IF SKIN CONTACT: Wash with plenty of water/…
P333 + P313	In case skin irritation or rash occurs: seek medical advice/help.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of the content / container in an approved for disposal place in compliance with the local and national regulations.

Other information : In accordance with general product specification:
The information in this material safety data sheet is meant to represent typical data/analysis for this product and was obtained from current and reliable sources.

To the best of our knowledge, data is accurate and based on our knowledge and information, at the time of publication.
The information presented is intended only as a guidance for proper and safe use, handling, storage, transportation and disposal, and should not be considered a guarantee /expressed or implied/ or a quality specification with respect to the correctness or accuracy.
It is responsibility of the user to determine any safe conditions for use of this product, and to assume responsibility for any loss, injury, damage or expenses resulting from the improper use of this product.
The information relates to the specific product only and is not valid when it used in combination with other materials or in any process, unless specified in the text.
The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

Disclaimer :

The data in this Safety Ordinance correspond to the fair presentation of our experience at the time of printing.
The information should give you basic guidelines for safe handling of this product, specified in the Safety Ordinance regarding its storage, processing, transport and disposal. Data cannot be assigned to other products.
If the product is mixed or processed with other materials, or if it is subject to processing, the data in this Safety Ordinance cannot be assigned to the new material unless expressly stated otherwise.

The information provided is intended only as a guide to safe handling, use, processing, storage, transportation, disposal and release and should not be considered a warranty or quality specification.
Due to the many factors beyond our control in the use of this product, we cannot accept responsibility for accidents, mishaps, loss or damage caused by its use.

E N D!

LIST OF ALLERGEN SUBSTANCES OF THE 7.AMENDMENT OF THE 76/768/CEE DIRECTIVE

Customer: „ ALTEYA ORGANICS LLC, 1 Rozovarna St., 6167, village of Yagoda, Stara Zagora region

Name of product: Natural Organic Tea Tree Oil – v.02/12.06.2024

	NAME OF SUBSTANCES	REMARK	CAS No	EINECS No	NATURAL %	SYNTHETIC %	TOTAL %
1	*AMYL CINNAMAL*	*H317; H411*	*122-40-7*	*204-541-5*	-	-	-
2	*AMYLCINNAMYL ALCOHOL*	*H315; H317*	*101-85-9*	*202-982-8*	-	-	-
3	*ANISE ALCOHOL*	*H302; H318 H317*	*105-13-5*	*203-273-6*	-	-	-
4	*BENZYL ALCOHOL*	*H332; H302*	*100-51-6*	*202-859-9*	-	-	-
5	*BENZYL BENZOATE*	*H302*	*120-51-4*	*204-402-9*	-	-	-
6	*BENZYL CINNAMATE*	*H317; H411*	*103-41-3*	*203-109-3*	-	-	-
7	*BENZYL SALICYLATE*	*H317; H411*	*118-58-1*	*204-262-9*	-	-	-
8	*CINNAMAL*	*H312; H315 H317*	*104-55-2*	*203-213-9*	-	-	-
9	*CINNAMYL ALCOHOL*	*H317*	*104-54-1*	*203-212-3*	-	-	-
10	*CITRAL*	*H315; H317*	*5392-40-5*	*226-394-6*	-	-	-
11	*CITRONELLOL*	*H315; H317 H411*	*106-22-9*	*203-375-0*	-	-	-
12	*COUMARIN*	*H302; H317*	*91-64-5*	*202-086-7*	-	-	-
13	*EUGENOL*	*H319; H317*	*97-53-0*	*202-589-1*	-	-	-
14	*FARNESOL*	*H315; H319*	*4602-84-0*	*225-004-1*	-	-	-
15	*ALPHA-ISOMETHYL IONONE*	*H412*	*127-51-5*	*204-846-3*	-	-	-
16	*GERANIOL*	*H315; H317*	*106-24-1*	*203-377-1*	-	-	-
17	*HEXYL CINNAMAL*	*H317;*	*101-86-0*	*202-983-3*	-	-	-
18	*HYDROXYCITRONELLAL*	*H319; H317*	*107-75-5*	*203-518-7*	-	-	-
19	*ISOEUGENOL*	*H312; H302 H319; H315 H317*	*97-54-1*	*202-590-7*	-	-	-
20	*BUTYLPHENYL METHYLPROPIONAL (LILIAL)*	*H317*	*80-54-6*	*201-289-8*	-	-	-
21	*LIMONENE*	*H226; H315 H317; H411*	*5989-27-5*	*227-813-5*	*0,854*	-	*0,854*
22	*LINALOOL*	*H315*	*78-70-6*	*201-134-4*	-	-	-
23	*HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)*	*H317*	*31906-04-4*	*250-863-4*	-	-	-
24	*METHYL 2-OCTYNOATE*	*H302; H317*	*111-12-6*	*203-836-6*	-	-	-
25	*EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)*	*H317*	*90028-67-4*	*289-860-8*	-	-	-
26	*EVERNIA PRUNASTRI (OAK MOSS)*	*H317*	*90028-68-5*	*289-861-3*	-	-	-
27	*ALPHA-PINENE*	*H226; H315; H317; H304 H400; H410*	*80-56-8*	*201-291-9*	*1,864*	-	*1,864*
28	*ALPHA-TERPINENE*	*H226; H302 H304; H317 H319; H411*	*99-86-5*	*202-795-1*	*9,405*	-	*9,405*
29	*BETA-PINENE*	*H226; H315; H317; H304 H400; H410*	*127-91-3*	*204-872-5*	*0,578*	-	*0,578*
30	*TERPINEOL*	*H315; H319*	*8000-41-7*	*232-268-1*	*2,853*	-	*2,853*
31	*TERPINOLENE*	*H304; H400 H410*	*586-62-9*	*209-578-0*	*3,426*	-	*3,426*

According to Regulation EO 1223/2009 и Directive 76/768/EEC is hereby amended as follows:
The presence of the substance must be indicated in the list of ingredients referred to inArticle 6(1)(g) when its concentration exceeds:— **0,001 %** in"**leave-on"**products, (and)— **0,01 %** in**"rinse-off"**products